

#4 #4

UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT: PETER STANFORTH

TITLE: Ad Hoc Peer-to-Peer Mobile Radio Access System ...

SERIAL NUMBER: 09/897,790

FILING DATE: JUNE 29, 2001

GROUP: ART UNIT

EXAMINER:

To: The Commissioner of Patents and Trademarks
Washington, D. C. 20231

INFORMATION DISCLOSURE STATEMENT

S I R:

Please find enclosed ~~six~~ pages of Form PTO-1449 and a copy of each reference cited therein. Some of the enclosed references are part of a preliminary patentability search conducted on the invention disclosed and claimed in the above-identified application.

Respectfully submitted,

By: Milton S. Gerstein

Milton S. Gerstein
Reg. No. 27,891

Hamman & Benn
10 S. LaSalle Street
Suite 3300
Chicago, Illinois 60603
(312) 372-2926 (Ext. 130)

LIST OF PATENTS AND PUBLICATIONS FOR
APPLICANT'S INFORMATION DISCLOSURE
STATEMENT

(Use several sheets if necessary)

SEP 14 2001

PATENT & TRADEMARK

APPLICANT

Peter Stanforth

FILING DATE

June 29, 2001

GROUP

REFERENCE DESIGNATION

U.S. PATENT DOCUMENTS

EXAMINER REF.		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	5 5 3 3 0 2 6	7/96	Ahmadi, et al.	370	94	
	AB	5 6 4 4 5 7 6	7/97	Bauchot, et al.	370	437	
	AC	5 7 4 8 6 2 4	5/98	Kondo	370	347	
	AD	5 7 8 7 0 7 6	7/98	Anderson, et al.	370	294	
	AE	5 9 8 7 0 1 1	11/99	Toh	370	331	
	AF	6 0 1 6 3 1 1	1/00	Gilbert, et al.	370	280	
	AG	6 0 2 8 8 5 3	2/00	Haartsen	370	338	
	AH	6 0 2 9 0 7 4	2/00	Irvin	4550	571	
	AI	6 0 5 8 1 0 6	5/00	Cudak, et al.	370	313	
	AJ	6 0 8 8 3 3 7	7/00	Eastmond, et al.	370	280	
	AK	6 0 9 7 7 0 4	8/00	Jackson, et al.	370	280	

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
							YES NO
	AL						
	AM						
	AN						
	AO						
	AP						

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	AA	"Topology Control of Multihop Wireless Networks using Transmit Power Adjustment", by Ram Ramanathan and Regina Rosales-Hain; BBN Technologies (Division of GTE), Cambridge, Mass. 1997.
	AB	"Reversing the Collision-Avoidance Handshake in Wireless Networks" by J.J. Garcia-Luna-Aceves and Asimakis Tzamaloukas; Baskin School of Engineering, University of California, Santa Cruz, 1997
E	AT	"Self-Organizing, Self-Healing Wireless Networks", by Chip Elliot and Bob Helle; BBN Technologies, Cambridge, Mass: IEEE, 2000

ATTY. DOCKET NO.

SERIAL NO.

1710.002

09/897,790

LIST OF PATENTS AND PUBLICATIONS FOR
APPLICANT'S INFORMATION DISCLOSURE
STATEMENT

SEP 14 2001

(Use several sheets if necessary)

APPLICANT

Peter Stanforth

FILING DATE

June 29, 2001

GROUP

REFERENCE DESIGNATION

U.S. PATENT DOCUMENTS

EXAMINER RTHL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
AA	6 1 0 4 7 1 2	8/00	Robert, et al.	370	389	
AB	6 1 0 8 3 1 6	8/00	Agrawal, et al.	370	311	
AC	6 1 3 0 8 8 1	10/00	Stiller, et al.	370	238	
AD	5 9 4 3 3 2 2	8/99	Mayor	370	280	
AE						
AF						
AG						
AH						
AI						
AJ						
AK						

FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
					YES NO
AL					
AM					
AN					
AO					
AP					

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AR	"A Performance Comparison of Multi-Hop Wireless Ad Hoc Network Routing Protocols", by Josh Broch, et al., Carnegie Mellon University, Pittsburgh, Pa., Proceedings of the Fourth Annual ACM/IEEE International Conference on Mobile Computing and Networking, 1998.
AS	"USAP: A Unifying Dynamic Distributed Multichannel TDMA Slot Assignment Protocol", by C. David Young, Rockwell International, Richardson, Texas
AT	"Net Throughput with IEEE 802.11 Wireless LANs", by Ad Kamerman and Guido Aben, Lucent Tech., Nieuwegein, The Netherlands

EXAMINER

DATE CONSIDERED

ATTY. DOCKET NO.
1710.00

SERIAL NO.

09/897,790

LIST OF PATENTS AND PUBLICATIONS FOR
APPLICANT'S INFORMATION DISCLOSURE
STATEMENT

SEP 14 2001

(Use several sheets if necessary)

APPLICANT
Peter StanforthFILING DATE
June 29, 2001

GROUP

REFERENCE DESIGNATION

U.S. PATENT DOCUMENTS

EXAMINER REFL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	AL							
	AM							
	AN							
	AO							
	AP							

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	AR	"Transmission-Efficient Routing in Wireless Networks Using Link-State Information", by J.J. Garcia-Luna-Aceves, Baskin School of Engineering, University of California, Santa Cruz; 1997.
	AS	"The Core-Assisted Mesh Protocol", by J.J. Garcia-Luna-Aceves and Ewerton L. Madruga, Baskin School of Engineering, University of California, Santa Cruz; 1997.
	AT	"Optimization of an Adaptive Link Control Protocol for Multimedia Packet Radio Networks", by J.R. McChesney, et al.; ITR Industries Aerospace Comm. Div.; Ft. Wayne, IN; 1997.

EXAMINER

DATE CONSIDERED

ATTY. DOCKET NO.

1710.0C2

SERIAL NO.

09/897,790

LIST OF PATENTS AND PUBLICATIONS FOR
APPLICANT'S INFORMATION DISCLOSURE
STATEMENT

(Use several sheets if necessary)

SEP 14 2001

PATENT & TRADEMARK OFFICE

APPLICANT

Peter Stanforth

FILING DATE

June 29, 2001-

GROUP

REFERENCE DESIGNATION

U.S. PATENT DOCUMENTS

EXAMINER RHYL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	AL							
	AM							
	AN							
	AO							
	AP							

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

/	AM	"Hierarchically-Organized, Multihop Mobile Wireless Networks for Quality-of-Service Support", by Ram Ramanathan and Martha Steenstrup;
		BBN Systems and Tech., Cambridge, Mass. 1995
-	AM	"Dynamic Multipoint Virtual Circuits for Multimedia Traffic in Multihop Mobile Wireless Networks", by Martha E. Steenstrup; BBN Tech.,
		Cambridge, Mass. 1995
✓	AT	"Packet-Based Multimedia Communications Systems" (H. 323)
		ITU-T Recommendations H.323; International Telecommunications Union; Nov. 2000

EXAMINER

DATE CONSIDERED

1710.00.2

09/897,790

LIST OF PATENTS AND PUBLICATIONS FOR
APPLICANT'S INFORMATION DISCLOSURE
STATEMENT

SEP 14 2001

(Use several sheets if necessary)



APPLICANT

Peter Stanforth

FILING DATE

June 29, 2001

GROUP

REFERENCE DESIGNATION

U.S. PATENT DOCUMENTS

EXAMINER RTHL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

FOREIGN PATENT DOCUMENTS

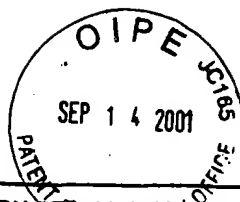
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	AL							
	AM							
	AN							
	AO							
	AP							

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

✓	AR	"Collision-Avoidance Transmission Scheduling for Ad-Hoc Networks", by Zhenyu Tang and J.J. Garcia-Luna-Aceves, University of California Santa Cruz, Calif., 1997.	✓
✓	AS	"QoS Networking with Adaptive Link Control and Tactical Multi- Channel Software Radios", by George Vardakas, et al., Communications Systems Div. of Raytheon Systems Co., San Diego, Calif.; 1997.	✓
	AT	Reversing the Collision Avoidance Handshake in WirelessN Networks", J.J. Garcia-Luna-Aceves, et al.; University of Calif.; 1997	

EXAMINER

DATE CONSIDERED



6.

FORM PTO-1449 (Modified) LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)	ATTY. DOCKET NO. 1710.002	SERIAL NO. 09/897,790
	APPLICANT Peter Stanforth	
	FILING DATE 6/29/01	GROUP

REFERENCE DESIGNATION								U.S. PATENT DOCUMENTS					
EXAMINER REF ID		DOCUMENT NUMBER							DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA												
	AB												
	AC												
	AD												
	AE												
	AF												
	AG												
	AH												
	AI												
	AJ												
	AK												

FOREIGN PATENT DOCUMENTS														
		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
		YES	NO											
	AL													
	AM													
	AN													
	AO													
	AP													

OTHER		ART (Including Author, Title, Date, Pertinent Pages, Etc.)	
	AR	"Net Throughput with IEEE 802.11 Wireless Lans", Lucent Technologies.	
	AS	"Topology Control of Multihop Wireless Networks Using TransmitPower Adjustment", BBN Technologies, 1997.	
	AT		
EXAMINER		DATE CONSIDERED	

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.